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# NOTICE OF ALLOWANCE AND FEE(S) DUE

32074

7590

04/02/2004

INTERNATIONAL BUSINESS MACHINES CORPORATION DEPT. 18G BLDG. 300-482 2070 ROUTE 52 HOPEWELL JUNCTION, NY 12533 EXAMINER
DICKEY, THOMAS L

ART UNIT

PAPER NUMBER

2826

DATE MAILED: 04/02/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/008.383	12/06/2001	Gregory G. Freeman	FIS920010321US1	2901

TITLE OF INVENTION: BIPOLAR DEVICE HAVING NON-UNIFORM DEPTH BASE-EMITTER JUNCTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/02/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

INSTRUCTIONS: This for appropriate. All further comindicated unless corrected by maintenance fee notification	elow or directed otherwise	smitting the ISSUE Patent, advance ord in Block 1, by (a)	E FEE and PUBLI lers and notification specifying a new	CATION FEE (if red of maintenance fees correspondence addres	quired). Blocks 1 through 4 s will be mailed to the current ss; and/or (b) indicating a sep	should be completed where correspondence address as arate "FEE ADDRESS" for
	E ADDRESS (Note: Legibly mark-up	with any corrections or u	ise Block I)	Note: A certificate of Fee(s) Transmittal. 7 papers. Each additio	of mailing can only be used f his certificate cannot be used nal paper, such as an assignm	or domestic mailings of the for any other accompanying ent or formal drawing, mus
32074 75	90 04/02/2004			have its own certific	ate of mailing or transmission.	on or round distribution
INTERNATIONA CORPORATION DEPT. 18G BLDG. 300-482	AL BUSINESS MAG	CHINES		I hereby certify that States Postal Service addressed to the M	ertificate of Mailing or Tran this Fee(s) Transmittal is bein with sufficient postage for fir ail Stop ISSUE FEE address SPTO, on the date indicated be	ig deposited with the United ist class mail in an envelope above, or being facsimile
2070 ROUTE 52						(Depositor's name)
HOPEWELL JUNG	CTION, NY 12533					(Signature)
						(Date)
APPLICATION NO.	FILING DATE	F	IRST NAMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/008,383	12/06/2001		Gregory G. Freen	nan	FIS920010321US1	2901
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PLEASE NOTE: Unless	an assignee is identified be d to the USPTO or is being	low, no assignee da submitted under sep	ta will appear on the arate cover. Compl	e patent. Inclusion of	assignee data is only appropri OT a substitute for filing an ass OUNTRY)	iate when an assignment ha signment.
Please check the appropriate		ries (will not be pri	nted on the patent);	individual C	corporation or other private g	roup entity
4a. The following fee(s) are	enclosed:		Payment of Fee(s)			
☐ Issue Fee				nount of the fee(s) is e		
☐ Publication Fee ☐ Advance Order - # of	Conies		•	it card. Form PTO-203 hereby authorized by	charge the required fee(s), or	credit any overnavment to
	Copies		Deposit Account N	umber	(enclose an extra	copy of this form).
Director for Patents is reques	sted to apply the Issue Fee a	nd Publication Fee (	(if any) or to re-app	ly any previously paid	l issue fee to the application id-	entified above.
(Authorized Signature)		(Date)				HE-1
other than the applicant; interest as shown by the re-	Publication Fee (if requir a registered attorney or ag cords of the United States Pa	ent; or the assigned atent and Trademark	e or other party in c Office.			
suggestions for reducing t Patent and Trademark ( 22313-1450, DO NOT S	tion is required by 37 CFR by the public which is to fy is governed by 35 U.S.C. I les to complete, including gent to the USPTO. Time with the amount of time you his burden, should be sent Office, U.S. Department END FEES OR COMPLE for Patents, Alexandria, Vir.	to the Chief Inform of Commerce, Al	ation is required to PTO to process) ard 4. This collection is and submitting the upon the individua e this form and/on ation Officer, U.S lexandria, Virginia THIS ADDRESS			

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/008,383	12/06/2001	Gregory G. Freeman	FIS920010321US1	2901	
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INTERNATIONAL BUSINESS MACHINES			DICKEY, T	DICKEY, THOMAS L	
CORPORATI	ON		ART UNIT	PAPER NUMBER	
DEPT. 18G			ARIONI	TATER NOMBER	
BLDG. 300-482	2		2826		
2070 ROUTE 5	2 INCTION NV 12533		DATE MAILED: 04/02/2004	4	

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 130 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 130 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
	Application No.	Applicant(s)	
Notice of Allowshility	10/008,383	FREEMAN ET AL.	
Notice of Allowability	Examiner	Art Unit	, ~ _
	Thomas L Dickey	2826	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate common GHTS. This application is so	n this application. If not included unication will be mailed in due course. THIS	
1. 🖂 This communication is responsive to <u>Amendment after final</u>	I filed 03/12/2004.		
2. The allowed claim(s) is/are <u>1-4 and 6-11</u> .			
3. $\boxtimes$ The drawings filed on <u>06 December 2001</u> are accepted by	the Examiner.		
4. Acknowledgment is made of a claim for foreign priority un	der 35 U.S.C. § 119(a)-(d)	or (f).	
a) All b) Some* c) None of the:	.,,,,		
<ol> <li>Certified copies of the priority documents have</li> </ol>	been received.		
2.  Certified copies of the priority documents have	been received in Application	on No	
<ol><li>Copies of the certified copies of the priority doc</li></ol>	cuments have been receive	d in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson		v ( PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment of	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F	Sit of BIOLOGICAL MAT FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.	
Attachment(s)			
1. Notice of References Cited (PTO-892)		formal Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ∐ Interview S Paner No.	ummary (PTO-413), Mail Date	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date</li> </ol>	8), 7. 🛭 Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance	_
of Biological Material	9.	- dombon?	De
		Minhloan Tran	
		Primary Examiner	

Primary Examiner
Art Unit 2826

Application/Control Number: 10/008,383

Art Unit: 2826

**EXAMINER'S AMENDMENT** 

Page 2

1. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37

CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no

later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Joseph Abate on March 24, 2004.

2. The application has been amended as follows:

In the Claims:

Cancel claims 12-22.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thomas L Dickey whose telephone number is 571-272-

1913. The examiner can normally be reached on Monday-Thursday 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan J Flynn can be reached on 703-308-6601. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

Application/Control Number: 10/008,383 Page 3

Art Unit: 2826

applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).